

RELAY VALVE

R-12
VERTICAL

CATALOG
03-B-04C

The relay valve is primarily used on long wheel base vehicles to apply and release rear axle(s) service or parking brakes.

It is an air operated, graduating directional control valve of high capacity and fast response. Upon receipt of signal pressure from the service brake valve, the relay valve will graduate, hold and release air pressure from the brake chambers to which it is connected.

The relay valve is used to balance the time of brake applications on heavy duty vehicles. They are especially needed where large volumes of air are required or long service lines cause the capacity of the brake valve to be exceeded.

Relay valves can be remote or reservoir mounted and differ primarily in the design.

The R-12 is piston operated and is offered with either vertical delivery ports which are primarily used on trailers or horizontal delivery ports which are primarily used on truck/tractors.

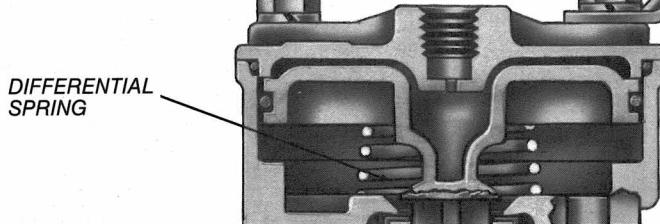
For service/maintenance information, see Service Data Sheet SD-03-31.

MAINTENANCE KIT IS PC. NO. 102802

WEIGHT - 2.25 LBS.

VMRS. NO. IS 13-010-009.

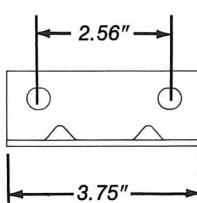
DEVICE CODE IS 1064.



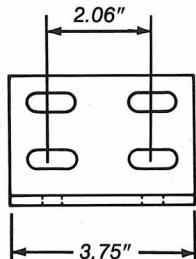
Maintenance Kit 102802 consists of:

Key No.	Qty.	Description
1	1	O-Ring
2	1	O-Ring
3	1	Valve Retainer
4	1	Inlet & Exhaust Vlv.
5	1	Valve Spring
6	1	Retaining Ring
7	1	Exh. Cover Complete
8	1	O-Ring
9	1	O-Ring

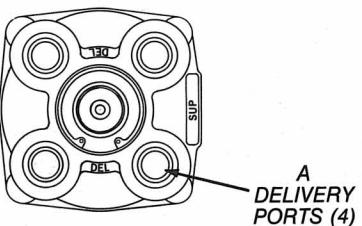
Mounting Brackets



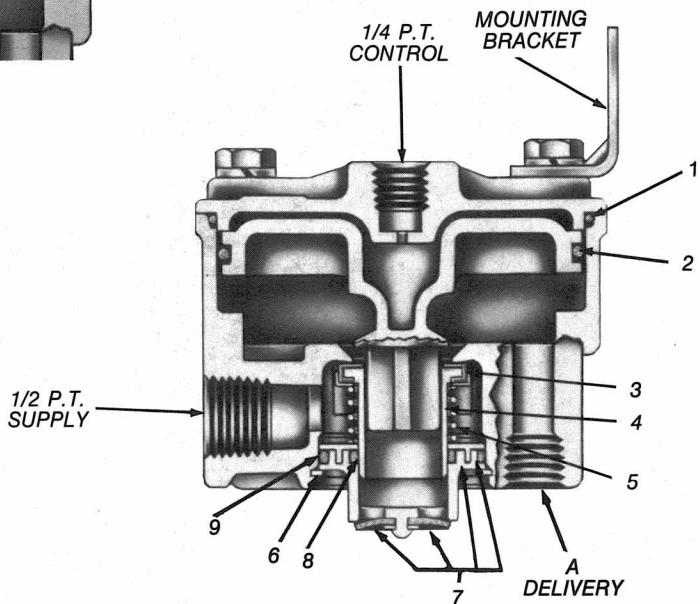
PC. NO.
294314



PC. NO.
296010
(UNIVERSAL)



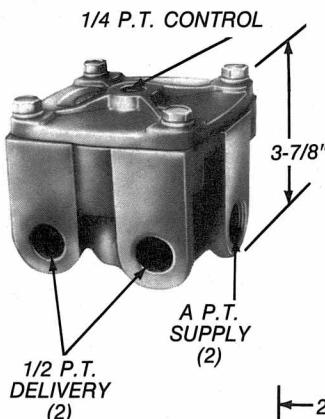
Bottom View



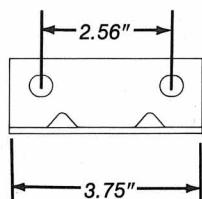
R-12 Vertical Service Replacement Pc. No.	Crack Pressure (P.S.I.)	A Delivery Port Size (P.T.)	Mounting Bracket Pc. No.	Differential Spring Pc. No.
102626	4	1/2	296010	—
103912	7.5	1/2	296010	297991
104561	5.5	3/8	296010	296340
065104	4	3/8	296010	—

Reducer bushings may be required to facilitate changeover. See page 07-A-4 for piece numbers.

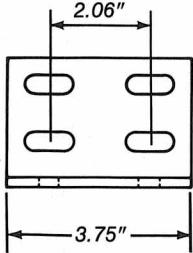
CRACK PRESSURE IS THE AMOUNT OF CONTROL PRESSURE REQUIRED BY THE VALVE TO INITIATE AIR DELIVERY.



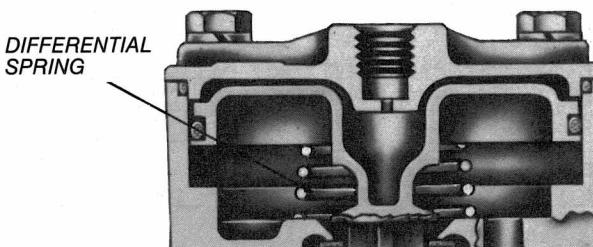
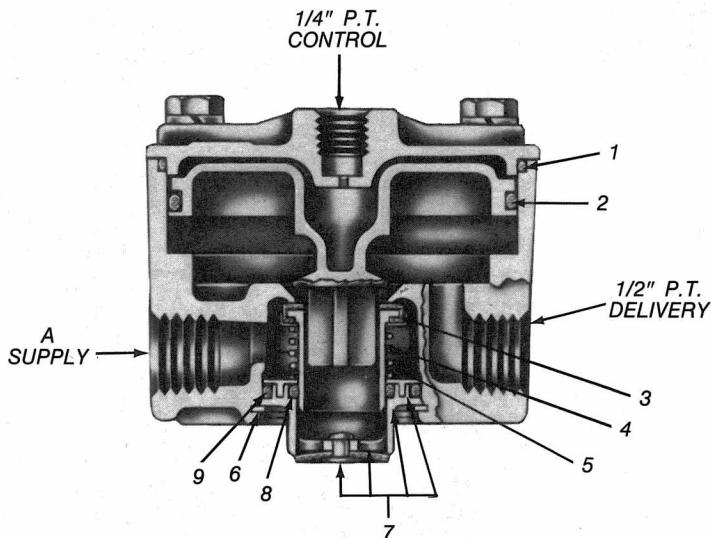
Mounting Brackets



PC. NO.
294314



PC. NO.
296010
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For service/maintenance information, see Service Data Sheet SD-03-31.

MAINTENANCE KIT IS PC. NO. 102802

WEIGHT - 2.25 LBS.

VMRS. NO. IS 13-010-009.

DEVICE CODE IS 1064.

Maintenance Kit 102802 consists of:

Key No.	Qty.	Description
1	1	O-Ring
2	1	O-Ring
3	1	Valve Retainer
4	1	Inlet & Exhaust Valve
5	1	Valve Spring
6	1	Retaining Ring
7	1	Exhaust Cover Complete
8	1	O-Ring
9	1	O-Ring

R-12 Horizontal Service Replacement P.C. No.	Crack Pressure (P.S.I.)	A Supply Port Size (P.T.)	Mounting Bracket Piece No.	Differential Spring P.C. No.
103009	4	3/4	296010	—
104165	7.5	3/4	296010	297991
103195	10	3/4	296010	294873
065125	5.5	1/2	296010	296340

Reducer bushings may be required to facilitate changeover. See page 07-A-4 for piece numbers.

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